

## EAST Search History

Ref #	Hits	Search Query	Dbs	Default Operator	Plurals	Time Stamp
S1	2	"6194818".PN	US-PGRUB; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; BIM_TDB	OR	ON	2008/03/12 09:33
S2	3	"5130103" "5320907" "6001416".PN	US-PGRUB; USPAT; USCOR	OR	ON	2008/03/12 09:34
S3	32	"5130103" "5320907" "6001416".URPN	USPAT	OR	ON	2008/03/12 09:35
S4	0	"5130103" "5320907" "6001416".URPN and piece\$ element	USPAT	OR	ON	2008/03/12 09:37
S5	1	"5130103" "5320907" "6001416".URPN and piece	USPAT	OR	ON	2008/03/12 09:38
S6	19	"4666531" "4963390" "5116643" "5130103" "5198269" "5320907" "5491102" "5559946" "5644636" "5650362" "6001416" "6056994" "6066581" "6174564" "6194227" "6194818" "6343859" "6511161" "6748635".PN	US-PGRUB; USPAT; USCOR	OR	ON	2008/03/12 09:40
S7	1	"4666531" "4963390" "5116643" "5130103" "5198269" "5320907" "5491102" "5559946" "5644636" "5650362" "6001416" "6056994" "6066581" "6174564" "6194227" "6194818" "6343859" "6511161" "6748635".PN and piece	US-PGRUB; USPAT; USCOR	OR	ON	2008/03/12 09:40
S8	15	"6056556".URPN	USPAT	OR	ON	2008/03/12 09:41
S9	2	"6056556".URPN and piece	USPAT	OR	ON	2008/03/12 09:42
S10	1	(US-6194818-\$) did. or (EP-832209-A-\$) did.	USPAT; DERWENT	OR	ON	2008/03/12 10:09
S11	64638	(relative with movement with mechanism) or ((nk\$[et adj head] with move\$4 with relative)	US-PGRUB; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; BIM_TDB	OR	ON	2008/03/12 12:50
S12	123	(relative with movement) with ((nk\$[et with head with medium])	US-PGRUB; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; BIM_TDB	OR	ON	2008/03/12 12:52
S13	11	"6194818".URPN	USPAT	OR	ON	2008/03/12 13:15
S14	2	"5367459".PN	US-PGRUB; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; BIM_TDB	OR	OFF	2008/03/24 11:05
S15	1	(US-5367459-\$) did.	USPAT	OR	ON	2008/03/24 11:10
S16	1	(US-6194818-\$) did.	USPAT	OR	ON	2008/03/24 11:25
S17	11	(US-7291520-\$ or US-7240409-\$ or US-7185640-\$ or US-7067965-\$ or US-7033001-\$ or US-7001014-\$ or US-6979936-\$ or US-6974965-\$ or US-6646509-\$ or US-6620237-\$ or US-6511161-\$) did.	USPAT	OR	ON	2008/03/24 11:34
S18	15	(US-7240409-\$ or US-7176079-\$ or US-7083269-\$ or US-7094552-\$ or US-7022823-\$ or US-6949477-\$ or US-6162261-\$ or US-6774534-\$ or US-6746535-\$ or US-6694092-\$ or US-6664117-\$ or US-6663668-\$ or US-6495106-\$ or US-6443228-\$ or US-6146935-\$) did.	USPAT	OR	ON	2008/03/24 11:35
S19	3	(US-6001416-\$ or US-5320907-\$ or US-5130103-\$) did.	USPAT	OR	ON	2008/03/24 11:36
S20	26	S17 or S16 or S19	US-PGRUB; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; BIM_TDB	OR	ON	2008/03/24 11:36
S21	26	(US-7291520-\$ or US-7240409-\$ or US-7185640-\$ or US-7176079-\$ or US-7083269-\$ or US-7067965-\$ or US-7064052-\$ or US-7033001-\$ or US-7022823-\$ or US-7001014-\$ or US-6979936-\$ or US-6974965-\$ or US-6949477-\$ or US-6162261-\$ or US-6646509-\$ or US-7094552-\$ or US-6746535-\$ or US-6694092-\$ or US-6664117-\$ or US-6620237-\$ or US-6663668-\$ or US-6511161-\$ or US-6495106-\$ or US-6443228-\$ or US-6146935-\$ or US-6001416-\$) did. or (US-5320907-\$ or US-5130103-\$) did.	USPAT	OR	ON	2008/03/24 11:37

322	26	(US 7291520-§ or US 7240409-§ or US 7185540-§ or US 7176079-§ or US 7082269-§ or US 7067965-§ or US 7064032-§ or US 7033001-§ or US 7022623-§ or US 7001014-§ or US 6979938-§ or US 6974965-§ or US 6949477-§ or US 6922951-§ or US 6846509-§ or US 6774054-§ or US 6748635-§ or US 6694082-§ or US 6664117-§ or US 6620237-§ or US 6593698-§ or US 6511161-§ or US 6455106-§ or US 6432238-§ or US 6146935-§ or US 6001416-§) did. or (US 6320907-§ or US 5130103-§) did. and piece	USPAT	OR	ON	2008/03/24 14:08
323	26	(US 7291520-§ or US 7240409-§ or US 7185540-§ or US 7176079-§ or US 7082269-§ or US 7067965-§ or US 7064032-§ or US 7033001-§ or US 7022623-§ or US 7001014-§ or US 6979938-§ or US 6974965-§ or US 6949477-§ or US 6922951-§ or US 6846509-§ or US 6774054-§ or US 6748635-§ or US 6694082-§ or US 6664117-§ or US 6620237-§ or US 6593698-§ or US 6511161-§ or US 6455106-§ or US 6432238-§ or US 6146935-§ or US 6001416-§) did. or (US 6320907-§ or US 5130103-§) did. and piece	USPAT	OR	ON	2008/03/24 14:10
324	2	"426" s.cds. and (US 7291520-§ or US 7240409-§ or US 7185540-§ or US 7176079-§ or US 7082269-§ or US 7067965-§ or US 7064032-§ or US 7033001-§ or US 7022623-§ or US 7001014-§ or US 6979938-§ or US 6974965-§ or US 6949477-§ or US 6922951-§ or US 6846509-§ or US 6774054-§ or US 6748635-§ or US 6694082-§ or US 6664117-§ or US 6620237-§ or US 6593698-§ or US 6511161-§ or US 6455106-§ or US 6432238-§ or US 6146935-§ or US 6001416-§) did. or (US 6320907-§ or US 5130103-§) did.	USPAT	OR	ON	2008/03/24 14:11
325	7	"310" s.cds. and (US 7291520-§ or US 7240409-§ or US 7185540-§ or US 7176079-§ or US 7082269-§ or US 7067965-§ or US 7064032-§ or US 7033001-§ or US 7022623-§ or US 7001014-§ or US 6979938-§ or US 6974965-§ or US 6949477-§ or US 6922951-§ or US 6846509-§ or US 6774054-§ or US 6748635-§ or US 6694082-§ or US 6664117-§ or US 6620237-§ or US 6593698-§ or US 6511161-§ or US 6455106-§ or US 6432238-§ or US 6146935-§ or US 6001416-§) did. or (US 6320907-§ or US 5130103-§) did.	USPAT	OR	ON	2008/03/24 14:12
326	3	"501" s.cds. and (US 7291520-§ or US 7240409-§ or US 7185540-§ or US 7176079-§ or US 7082269-§ or US 7067965-§ or US 7064032-§ or US 7033001-§ or US 7022623-§ or US 7001014-§ or US 6979938-§ or US 6974965-§ or US 6949477-§ or US 6922951-§ or US 6846509-§ or US 6774054-§ or US 6748635-§ or US 6694082-§ or US 6664117-§ or US 6620237-§ or US 6593698-§ or US 6511161-§ or US 6455106-§ or US 6432238-§ or US 6146935-§ or US 6001416-§) did. or (US 6320907-§ or US 5130103-§) did.	USPAT	OR	ON	2008/03/24 14:13
327	7	S24 or S25 or S26	US-PGRUE; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/03/24 14:14
328	1	g26n and (S24 or S25 or S26)	US-PGRUE; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/03/24 14:21
329	7	g26n:electric and (S24 or S25 or S26)	US-PGRUE; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/03/24 14:22
330	7	(US 7185540-§ or US 7067965-§ or US 7033001-§ or US 6979938-§ or US 6593698-§ or US 5320907-§ or US 5130103-§) did.	USPAT	OR	ON	2008/03/24 14:24
331	4	(US 7185540-§ or US 7067965-§ or US 7033001-§ or US 6979938-§ or US 6593698-§ or US 5320907-§ or US 5130103-§) did. and (first with electrode)	USPAT	OR	ON	2008/03/24 14:24
332	2	(US 7185540-§ or US 7067965-§ or US 7033001-§ or US 6979938-§ or US 6593698-§ or US 5320907-§ or US 5130103-§) did. and (first with electrode) and (rhombohedral or tetragonal)	USPAT	OR	ON	2008/03/24 14:33
333	2	(US 7185540-§ or US 7067965-§ or US 7033001-§ or US 6979938-§ or US 6593698-§ or US 5320907-§ or US 5130103-§) did. and (first with electrode) and (rhombohedral or tetragonal) and perovskite	USPAT	OR	ON	2008/03/24 14:33
334	235432	"73" s.cds	US-PGRUE; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/03/24 14:37
335	131197	"310" s.cds	US-PGRUE; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/03/24 14:38
336	610	73:504.16	US-PGRUE; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/03/24 14:39
337	5	"5498223(1)" "5991593" "5998238" "6194169" "7083270(1)".	US-PGRUE; USPAT; USCOR	OR	ON	2008/03/24 15:09
338	6	"5508653" "6097133" "6142619" "6194818" "6494567" "6069157" .PN	US-PGRUE; USPAT; USCOR	OR	ON	2008/03/24 15:10
339	10	S37 or S38	US-PGRUE; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/03/24 15:10

S40	6	{US-6969157-\$ or US-6494567-\$ or US-6194816-\$ or US-5998236-\$ or US-5691593-\$ or US-5438231-\$} d,d	USPAT	OR	ON	2008/03/24 15.15
S41	35	{US-6969157-\$ or US-6494567-\$ or US-5998236-\$ or US-5691593-\$ or US-5438231-\$ or US-5387459-\$ or US-6194816-\$ or US-7291520-\$ or US-7240409-\$ or US-7185540-\$ or US-7176079-\$ or US-7063269-\$ or US-7067955-\$ or US-7064052-\$ or US-7033011-\$ or US-7022823-\$ or US-7001014-\$ or US-6979939-\$ or US-6974965-\$ or US-6949477-\$ or US-6832851-\$ or US-6846509-\$ or US-6774054-\$ or US-6748635-\$ or US-6694062-\$ or US-6664117-\$} d,d or {US-6622237-\$ or US-6583889-\$ or US-6511161-\$ or US-6455106-\$ or US-6432238-\$ or US-6146935-\$ or US-6001416-\$ or US-5320907-\$ or US-5130103-\$} d,d	USPAT	OR	ON	2008/03/24 15.18
S42	33	{US-6969157-\$ or US-6494567-\$ or US-5998236-\$ or US-5691593-\$ or US-5438231-\$ or US-5387459-\$ or US-6194816-\$ or US-7291520-\$ or US-7240409-\$ or US-7185540-\$ or US-7176079-\$ or US-7063269-\$ or US-7067955-\$ or US-7064052-\$ or US-7033011-\$ or US-7022823-\$ or US-7001014-\$ or US-6979939-\$ or US-6974965-\$ or US-6949477-\$ or US-6832851-\$ or US-6846509-\$ or US-6774054-\$ or US-6748635-\$ or US-6694062-\$ or US-6664117-\$} d,d or {US-6622237-\$ or US-6583889-\$ or US-6511161-\$ or US-6455106-\$ or US-6432238-\$ or US-6146935-\$ or US-6001416-\$ or US-5320907-\$ or US-5130103-\$} d,d and @pdc<="2030304"	USPAT	OR	ON	2008/03/24 15.19
S43	13	{US-7176079-\$ or US-7064052-\$ or US-7001014-\$ or US-6974965-\$ or US-6940382-\$ or US-6664117-\$ or US-6511161-\$ or US-6494567-\$ or US-6455106-\$ or US-6432238-\$ or US-6194816-\$ or US-6146935-\$ or US-5998236-\$} d,d	USPAT	OR	ON	2008/03/24 16.37
S44	5	{US-7176079-\$ or US-7064052-\$ or US-7001014-\$ or US-6974965-\$ or US-6940382-\$ or US-6664117-\$ or US-6511161-\$ or US-6494567-\$ or US-6455106-\$ or US-6432238-\$ or US-6194816-\$ or US-6146935-\$ or US-5998236-\$} d,d, and piezoelectric	USPAT	OR	ON	2008/03/24 16.39
S45	0	{US-7176079-\$ or US-7064052-\$ or US-7001014-\$ or US-6974965-\$ or US-6940382-\$ or US-6664117-\$ or US-6511161-\$ or US-6494567-\$ or US-6455106-\$ or US-6432238-\$ or US-6194816-\$ or US-6146935-\$ or US-5998236-\$} d,d, and piezoelectric and ((rhombohedral or tetragonal) with perovskite)	USPAT	OR	ON	2008/03/24 16.41
S46	4	{US-7176079-\$ or US-7064052-\$ or US-7001014-\$ or US-6974965-\$ or US-6940382-\$ or US-6664117-\$ or US-6511161-\$ or US-6494567-\$ or US-6455106-\$ or US-6432238-\$ or US-6194816-\$ or US-6146935-\$ or US-5998236-\$} d,d, and piezoelectric and ((rhombohedral or tetragonal)	USPAT	OR	ON	2008/03/24 16.42
S48	4	{US-7176079-\$ or US-7064052-\$ or US-7001014-\$ or US-6974965-\$ or US-6940382-\$ or US-6664117-\$ or US-6511161-\$ or US-6494567-\$ or US-6455106-\$ or US-6432238-\$ or US-6194816-\$ or US-6146935-\$ or US-5998236-\$} d,d, and piezoelectric and ((rhombohedral or tetragonal) and perovskite and ratio	USPAT	OR	ON	2008/03/24 16.45
S49	4	{US-7001014-\$ or US-6511161-\$ or US-6494567-\$ or US-6194816-\$} d,d	USPAT	OR	ON	2008/03/24 16.48
S51	1	"347"/"72" and piezoelectric with film) and (first with electrode with film) and (first with thin with film) same (aggregates with columnar)) and ((rhombohedral or tetragonal) with perovskite)	US-PGPub, USPAT, USOICI, FRS, EPO, JPO, DERIVENT, IBM, TDB	OR	ON	2008/03/24 17.22
S52	1	"2050/27795" PN	US-PGPub, USPAT, USOICI	OR	ON	2008/03/24 17.23
S53	0	{US-6969157-\$ or US-6494567-\$ or US-6194816-\$ or US-5998236-\$ or US-5691593-\$ or US-5438231-\$} d,d, and (diameter with columnar with grain)	USPAT	OR	ON	2008/03/26 13.51
S54	0	{US-6969157-\$ or US-6494567-\$ or US-6194816-\$ or US-5998236-\$ or US-5691593-\$ or US-5438231-\$} d,d, and (diameter same (columnar adj grain))	USPAT	OR	ON	2008/03/26 13.53
S55	1	{US-6969157-\$ or US-6494567-\$ or US-6194816-\$ or US-5998236-\$ or US-5691593-\$ or US-5438231-\$} d,d, and (columnar with grain)	USPAT	OR	ON	2008/03/26 13.53
S56	9	"310"/\$ cdc, and (diameter with columnar with grain)	US-PGPub, USPAT, USOICI, FRS, EPO, JPO, DERIVENT, IBM, TDB	OR	ON	2008/03/26 13.57
S57	2	{US-615382-\$ or US-6402203-\$} d,d	USPAT	OR	ON	2008/03/26 13.59
S58	1	{US-615382-\$ or US-6402203-\$} d,d, and nm	USPAT	OR	ON	2008/03/26 13.59
S59	164	"310"/\$ cdc, and (diameter with grain)	US-PGPub, USPAT, USOICI, FRS, EPO, JPO, DERIVENT, IBM, TDB	OR	ON	2008/03/26 14.01
S60	80	"310"/\$ cdc, and (diameter with grain) and @pdc="2030305"	US-PGPub, USPAT, USOICI, FRS, EPO, JPO, DERIVENT, IBM, TDB	OR	ON	2008/03/26 14.01
S61	7	"310"/\$ cdc, and (diameter with grain) and @pdc="2030305" and nm	US-PGPub, USPAT, USOICI, FRS, EPO, JPO, DERIVENT, IBM, TDB	OR	ON	2008/03/26 14.02
S62	1	{US-6511161-\$} d,d, and nm	USPAT	OR	ON	2008/03/26 14.20

363	16605	"takamatsu"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:29
364	0	"takamatsu and daim and '9"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:30
365	0	"takamatsu and daim and '9"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:31
366	0	"takamatsu and daim"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:31
367	0	"takamatsu et al."	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:31
368	4	(US-7176079- $\S$ or US-7064952- $\S$ or US-7001014- $\S$ or US-6974985- $\S$ or US-6964982- $\S$ or US-6664117- $\S$ or US-6511161- $\S$ or US-6494567- $\S$ or US-6455105- $\S$ or US-6432238- $\S$ or US-6194818- $\S$ or US-6146935- $\S$ or US-5989236- $\S$ ) did and piezoelectric and (rhombohedral or tetragonal) and perovskite	USPAT	OR	ON	2008/03/26 14:37
369	0	"takamatsu.in"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:41
370	0	"takamatsu.in"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:41
371	0	"takamatsu and (354)"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:43
372	7660	"takamatsu and '112"	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:43
373	0	("Takamatsu et al.")	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:44
374	4	takamatsu pot and columnar and diameter	US-PGRUE; USPAT; USCOR; FRPS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/03/26 14:49
375	1	(09/962432) APP.	USPAT; USCOR	OR	ON	2008/03/26 15:26
376	1	(US-6824456- $\S$ ) dtd.	USPAT	OR	ON	2008/03/26 15:26
377	1	(US-6824456- $\S$ ) dtd.	USPAT	OR	ON	2008/03/26 15:30

576	1	(US-6455106-§) did.	USPAT	OR	ON	2008/03/26 15:38
579	7	"6402304"	US-PGRUB; USPAT; USCOR, FRFS; EPO, JPO; DERIVENT; BIM, TDB	OR	ON	2008/03/26 15:39
580	3	(US-6624456-§ or US-7083269-§ or US-6402304-§) did.	USPAT	OR	ON	2008/03/26 15:41
581	1	(US-6624456-§ or US-7083269-§ or US-6402304-§) did. and (length or width)	USPAT	OR	ON	2008/03/26 15:41
582	6	"6402304" and (length or width)	US-PGRUB; USPAT; USCOR, FRFS; EPO, JPO; DERIVENT; BIM, TDB	OR	ON	2008/03/26 15:44
583	5	pat and (columnar with grain) same (length with nm)	US-PGRUB; USPAT; USCOR, FRFS; EPO, JPO; DERIVENT; BIM, TDB	OR	ON	2008/03/26 15:48
585	3	(US-6624456-§ or US-7083269-§ or US-6402304-§) did. and nm	USPAT	OR	ON	2008/03/26 15:54
586	2	(US-6624456-§ or US-7083269-§ or US-6402304-§) did. and orientation	USPAT	OR	ON	2008/03/26 16:11
587	0	(US-6624456-§ or US-7083269-§ or US-6402304-§) did. and mol and (manganese or magnesium)	USPAT	OR	ON	2008/03/26 16:32
588	2	(US-6624456-§ or US-7083269-§ or US-6402304-§) did. and (manganese or magnesium)	USPAT	OR	ON	2008/03/26 16:33
589	8	"6705708"	US-PGRUB; USPAT; USCOR, FRFS; EPO, JPO; DERIVENT; BIM, TDB	OR	ON	2008/03/26 16:34
590	5	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did.	USPAT	OR	ON	2008/03/26 17:06
591	4	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and orientation	USPAT	OR	ON	2008/03/26 17:07
592	2	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and (Pb with Zr with Ti)	USPAT	OR	ON	2008/03/26 17:34
593	4	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and Pb	USPAT	OR	ON	2008/03/26 17:36
594	4	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and disphragm	USPAT	OR	ON	2008/03/26 18:08
595	4	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and (manganese or magnesium)	USPAT	OR	ON	2008/03/27 06:29
596	4	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and Zr	USPAT	OR	ON	2008/03/27 06:15
597	3	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and (Pb and Zr and Ti)	USPAT	OR	ON	2008/03/27 06:15
598	2	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and (Pb same Z same Ti)	USPAT	OR	ON	2008/03/27 06:16
599	2	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and (Pb with Zr with Ti)	USPAT	OR	ON	2008/03/27 06:16
5100	5	(US-6494567-§ or US-6624456-§ or US-7083269-§ or US-6402304-§ or US-6705708-§) did. and nm	USPAT	OR	ON	2008/03/27 06:55
5101	4	"6455106"	US-PGRUB; USPAT; USCOR, FRFS; EPO, JPO; DERIVENT; BIM, TDB	OR	ON	2008/03/27 09:49
5102	1	(US-6455106-§) did.	USPAT	OR	ON	2008/03/27 09:50

S103	1	"10560001"	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-03-28 10:20
S104	50	(US-5983614-§ or US-6091180-§ or US-5754331-§ or US-3614922-§ or US-6088895-§ or US-5674975-§ or US-6197600-§ or US-4387973-§ or US-4401956-§ or US-4805157-§ or US-5240352-§ or US-5261862-§ or US-5326356-§ or US-5371726-§ or US-5446164-§ or US-5448126-§ or US-5606452-§ or US-5669505-§ or US-5665959-§ or US-5757061-§ or US-5757539-§ or US-5805331-§ or US-5922109-§ or US-5931299-§ or US-5952202-§ or US-5977699-§) did. or (US-5303025-§ or US-5949569-§ or US-5989104-§ or US-5988119-§ or US-6143325-§ or US-6103539-§ or US-6194325-§ or US-6163090-§ or US-6162230-§ or US-6165602-§ or US-6203715-§ or US-6221671-§ or US-6262552-§ or US-6276136-§ or US-6229740-§ or US-6326714-§ or US-6336861-§ or US-6375461-§ or US-6400498-§ or US-6440591-§ or US-6468745-§ or US-6515835-§ or US-6687461-§) did.	USPAT	OR	ON	2008-06-11 13:11
S105	5	(pat and (column with grain) same (length with nm))	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 13:12
S106	0	S104 and S105	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 13:12
S107	0	(S104 and S105) and (pat or piezo or piezoelectric§2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo§edral or tetragonal)	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 13:08
S108	10	(S104 or S105) and (pat or piezo or piezoelectric§2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo§edral or tetragonal)	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 13:59
S109	814	(pat or piezo or piezoelectric§2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo§edral or tetragonal)	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 14:05
S110	14	(pat or piezo or piezoelectric§2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo§edral or tetragonal) SAME (diameter or radius) near (cross with sectional) OR crossSection§2 OR sectional)	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 14:07
S111	14	(pat or piezo or piezoelectric§2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo§edral or tetragonal) SAME (diameter or radius) near (cross with sectional) OR crossSection§2 OR sectional)	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 14:10
S112	14	(pat or piezo or piezoelectric§2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo§edral or tetragonal) SAME (diameter or radius) near (cross with sectional) OR crossSection§2 OR sectional)	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 14:11
S113	25	(US-6194816-§ or US-5998236-§ or US-5691593-§ or US-5438231-§ or US-6494567-§ or US-7178079-§ or US-7094052-§ or US-7010114-§ or US-6974985-§ or US-6694282-§ or US-6664117-§ or US-6611161-§ or US-6455106-§ or US-6432228-§ or US-6146035-§ or US-6515382-§ or US-6422203-§ or US-7291520-§ or US-7082269-§ or US-7067965-§ or US-7033001-§ or US-7226232-§ or US-6969157-§ or US-6932651-§ or US-6946509-§) did.	USPAT	OR	ON	2008-06-11 14:23
S114	99	S112 or S113	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 14:23
S115	1	(pat or piezo or piezoelectric§2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo§edral or tetragonal) SAME (diameter or radius) near (cross with sectional) OR crossSection§2 OR sectional) and @pdx="20030305"	US-RPUB; USPAT; USCORP; PFS; EPO; JPO; DERIVENT; IBM_TDB	OR	ON	2008-06-11 14:36

S116	14	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columar or rhombo\$edral or tetra\$gonal) SAME (diameter or radius) near ((cross with sectional) OR crossSection\$2 OR sectional))	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 14:38
S117	5	("20030098632"   "20040206296"   "20040206948"   "20050127789"   "20050146772") .PN	US:RGRUE; USPAT; USCOR	OR	ON	2008/06/11 15:11
S118	1	"2004/0206296" .LRFN	USPAT	OR	ON	2008/06/11 15:16
S119	1	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columar or rhombo\$edral or tetra\$gonal) SAME (diameter or radius) near ((cross with sectional) OR crossSection\$2 OR sectional)) and @doc="20040305"	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 15:22
S120	1	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columar or rhombo\$edral or tetra\$gonal) SAME (diameter or radius) near ((cross with sectional) OR crossSection\$2 OR sectional)) and @doc="20040305"	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 15:25
S121	1	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) and (columar or rhombo\$edral or tetra\$gonal) same (diameter or radius) near ((cross with sectional) OR crossSection\$2 OR sectional)) and @doc="20040305"	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 15:28
S122	22	("20030098632"   "20040206296"   "20040206948"   "20050127789"   "20050146772"   "5176033"   "6003338"   "6411017"   "6610361") .PN OR ("2005/0127789"   "2005/0146772"   "2005/0218756"   "2006/0170736"   "3686115"   "7145285"   "7193756"   "7312586") .LRFN	US:RGRUE; USPAT; USCOR	OR	ON	2008/06/11 15:33
S123	22	((US-20050146772-\$ or US-20050127789-\$ or US-20040206948-\$ or US-20040206296-\$ or US-20030098632-\$) did. or (US-7312586-\$ or US-7193756-\$ or US-6911153-\$ or US-6610361-\$ or US-6590000-\$ or US-6444176-\$ or US-6411017-\$ or US-6093338-\$ or US-5176033-\$ or US-4961860-\$ or US-4987876-\$ or US-4362629-\$ or US-4076617-\$ or US-4034118-\$ or US-4013552-\$ or US-4003832-\$ or US-3974475-\$) did	US:RGRUE; USPAT	OR	ON	2008/06/11 15:34
S124	15	((US-20050146772-\$ or US-20050127789-\$ or US-20040206948-\$ or US-20040206296-\$ or US-20030098632-\$) did. or (US-7312586-\$ or US-7193756-\$ or US-6911153-\$ or US-6610361-\$ or US-6590000-\$ or US-6444176-\$ or US-6411017-\$ or US-6093338-\$ or US-5176033-\$ or US-4961860-\$ or US-4987876-\$ or US-4362629-\$ or US-4076617-\$ or US-4034118-\$ or US-4013552-\$ or US-4003832-\$ or US-3974475-\$) did) and @doc="20040305"	US:RGRUE; USPAT	OR	ON	2008/06/11 15:34
S125	15	((US-20050146772-\$ or US-20050127789-\$ or US-20040206948-\$ or US-20040206296-\$ or US-20030098632-\$) did. or (US-7312586-\$ or US-7193756-\$ or US-6911153-\$ or US-6610361-\$ or US-6590000-\$ or US-6444176-\$ or US-6411017-\$ or US-6093338-\$ or US-5176033-\$ or US-4961860-\$ or US-4987876-\$ or US-4362629-\$ or US-4076617-\$ or US-4034118-\$ or US-4013552-\$ or US-4003832-\$ or US-3974475-\$) did) and @doc="20040305" and ((pat or piezo or piezoelectric\$2 or perovskite) or (film or layer or thickness or thick) or (crystal or grain or plane) or (columar or rhombo\$edral or tetra\$gonal) or (diameter or radius) or ((cross with sectional) OR crossSection\$2 OR sectional))	US:RGRUE; USPAT	OR	ON	2008/06/11 15:37
S126	139	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columar or rhombo\$edral or tetra\$gonal) SAME ((nanometer OR nm OR n\$meter) OR (micrometer OR nm OR micro ADJ meter)))	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 15:56
S127	1	"2005/0146772" .LRFN	USPAT	OR	ON	2008/06/11 16:37
S130	14	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columar or rhombo\$edral or tetra\$gonal) same (diameter or radius) near ((cross with sectional) OR crossSection\$2 OR sectional))	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 16:45
S131	80858	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) and (columar or rhombo\$edral or tetra\$gonal) same (diameter or radius) near ((cross with sectional) OR crossSection\$2 OR sectional)) and @doc="20040305"	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 16:45
S132	41	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columar or rhombo\$edral or tetra\$gonal) SAME ((nanometer OR nm OR n\$meter) OR (micrometer OR nm OR micro ADJ meter))) and @doc="20030305"	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 16:53
S133	139	((pat or piezo or piezoelectric\$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columar or rhombo\$edral or tetra\$gonal) SAME ((nanometer OR nm OR n\$meter) OR (micrometer OR nm OR micro ADJ meter)))	US:RGRUE; USPAT; USCOR; FRFS; EPO; JPO; DERWENT; IBM; TDB	OR	ON	2008/06/11 17:14

S134	96	S133 not S132		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/11 17:14
S135	20	"20040124482"   "20050082943"   "5657063"   "6402304"   "6565987"   "6608783"   "6616256"   "6686729"   "6945633"   "8860424" PN		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/11 17:39
S136	20	"20040124482"   "20050082943"   "5657063"   "6402304"   "6565987"   "6608783"   "6616256"   "6686729"   "6945633"   "8860424" PN		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/11 17:42
S137	2	S136 and (pat or piece or pieceSelected2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombohedral or tetragonal) SAME ((nanosmeter OR nm OR nfsmeter) OR (microsmeter OR nm OR micro ADJ meter))		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/11 17:44
S138	9	"6411017"		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/12 08:27
S139	8	((US7143285-\$ or US7121650-\$ or US6841817-\$ or US6682231-\$ or US6683940-\$ or US6545387-\$ or US6411017-\$) did. or (US3841017-\$) did. or (EP-962000-A-\$) did.		USPAT; USCOR; DERWENT	OR	ON	2008/06/12 08:28
S140	1	((US7143285-\$ or US7121650-\$ or US6841817-\$ or US6682231-\$ or US6683940-\$ or US6545387-\$ or US6411017-\$) did. or (US3841017-\$) did. or (EP-962000-A-\$) did.) and @doc="20080305" and (columnar and (grain or crystal) with diameter		USPAT; USCOR; DERWENT	OR	ON	2008/06/12 08:29
S141	1	((US7143285-\$ or US7121650-\$ or US6841817-\$ or US6682231-\$ or US6683940-\$ or US6545387-\$ or US6411017-\$) did. or (US3841017-\$) did. or (EP-962000-A-\$) did.) and @doc="20080305" and (columnar and (grain or crystal) with diameter and pat		USPAT; USCOR; DERWENT	OR	ON	2008/06/12 08:32
S142	156	((pat or piece or pieceSelected2 or perovskite) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((nanosmeter or nm OR nfsmeter) or (microsmeter or nm or micro ADJ meter))		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/12 12:41
S143	0	((pat or piece or pieceSelected2 or perovskite) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((nanosmeter or nm OR nfsmeter) or (microsmeter or nm or micro ADJ meter)) and ("40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70")		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/12 12:46
S144	0	((pat or piece or pieceSelected2 or perovskite) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((nanosmeter or nm OR nfsmeter) or (microsmeter or nm or micro ADJ meter)) and ("40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70")		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/12 12:48
S145	119	((pat or piece or pieceSelected2 or perovskite) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((nanosmeter or nm OR nfsmeter) or (microsmeter or nm or micro ADJ meter)) and ("40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70")		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/12 12:49
S146	67	((pat or piece or pieceSelected2 or perovskite) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((nanosmeter or nm OR nfsmeter) or (microsmeter or nm or micro ADJ meter)) and ("40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70") adj nm		US-RPUB; USPAT; USCOR, FRPS; EPO, JPO; DERWENT; IBM, TDB	OR	ON	2008/06/12 12:51



3147	16	{(pat or pizzo or piezoelectricity2 or poroviskie) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same (nanosheet or nm OR nsheet) or (microsheet or nm or micro ADJ meter) and ((/40, "41, "42, "43, "44, "45, "46, "47, "48, "49, "50, "51, "52, "53, "54, "55, "56, "57, "58, "59, "60, "61, "62, "63, "64, "65, "66, "67, "68, "69, "70) adj nm) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 12:53
3148	3	{(pat or pizzo or piezoelectricity2 or poroviskie) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same (nanosheet or nm OR nsheet) or (microsheet or nm or micro ADJ meter) and ((/40, "41, "42, "43, "44, "45, "46, "47, "48, "49, "50, "51, "52, "53, "54, "55, "56, "57, "58, "59, "60, "61, "62, "63, "64, "65, "66, "67, "68, "69, "70) adj nm) with (pat) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 12:54
3149	0	{(pat or pizzo or piezoelectricity2 or poroviskie) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same (nanosheet or nm OR nsheet) or (microsheet or nm or micro ADJ meter) and ((/40, "41, "42, "43, "44, "45, "46, "47, "48, "49, "50, "51, "52, "53, "54, "55, "56, "57, "58, "59, "60, "61, "62, "63, "64, "65, "66, "67, "68, "69, "70, "71, "72, "73, "74, "75, "76, "77, "78, "79, "80, "81, "82, "83, "84, "85, "86, "87, "88, "89, "90, "91, "92, "93, "94, "95, "96, "97, "98, "99, "100) adj nm) with (pat) and (length or width) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 13:13
3150	4	{(pat or pizzo or piezoelectricity2 or poroviskie) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same (nanosheet or nm OR nsheet) or (microsheet or nm or micro ADJ meter) and ((/40, "41, "42, "43, "44, "45, "46, "47, "48, "49, "50, "51, "52, "53, "54, "55, "56, "57, "58, "59, "60, "61, "62, "63, "64, "65, "66, "67, "68, "69, "70, "71, "72, "73, "74, "75, "76, "77, "78, "79, "80, "81, "82, "83, "84, "85, "86, "87, "88, "89, "90, "91, "92, "93, "94, "95, "96, "97, "98, "99, "100) adj nm) with (pat) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 13:17
3151	2	{(pat or pizzo or piezoelectricity2 or poroviskie) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((/40, "41, "42, "43, "44, "45, "46, "47, "48, "49, "50, "51, "52, "53, "54, "55, "56, "57, "58, "59, "60, "61, "62, "63, "64, "65, "66, "67, "68, "69, "70, "71, "72, "73, "74, "75, "76, "77, "78, "79, "80, "81, "82, "83, "84, "85, "86, "87, "88, "89, "90, "91, "92, "93, "94, "95, "96, "97, "98, "99, "100) adj nm) with (pat) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 13:22
3152	6	{(pat or pizzo or piezoelectricity2 or poroviskie) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((/40, "41, "42, "43, "44, "45, "46, "47, "48, "49, "50, "51, "52, "53, "54, "55, "56, "57, "58, "59, "60, "61, "62, "63, "64, "65, "66, "67, "68, "69, "70, "71, "72, "73, "74, "75, "76, "77, "78, "79, "80, "81, "82, "83, "84, "85, "86, "87, "88, "89, "90, "91, "92, "93, "94, "95, "96, "97, "98, "99, "100) adj nm) same (pat) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 13:26
3153	1	{(pat with aspect) same (crystal or grain) same (columnar or rhombohedral or tetragonal) same ((/40, "41, "42, "43, "44, "45, "46, "47, "48, "49, "50, "51, "52, "53, "54, "55, "56, "57, "58, "59, "60, "61, "62, "63, "64, "65, "66, "67, "68, "69, "70, "71, "72, "73, "74, "75, "76, "77, "78, "79, "80, "81, "82, "83, "84, "85, "86, "87, "88, "89, "90, "91, "92, "93, "94, "95, "96, "97, "98, "99, "100) adj nm) same (pat) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 13:30
3154	39	{pat with (aspect adj ratio)}	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 13:46
3155	9	{pat with (aspect adj ratio) and @pdc="20030305"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/12 13:46
3156	29	{(US-2005/014772-S) did. or (US-0194816-S or US-5988236-S or US-5991983-S or US-5438221-S or US-6194567-S or US-7176079-S or US-7064052-S or US-7001014-S or US-6974865-S or US-6694062-S or US-9864110-S or US-691181-S or US-645106-S or US-6432226-S or US-6146035-S or US-6515362-S or US-6420203-S or US-7312556-S or US-6402004-S or US-7291520-S or US-7063269-S or US-7067965-S or US-7030001-S or US-7022629-S or US-6869151-S or US-6902951-S) did. or (US-6946509-S or US-5660292-S) did.	US:RQUB; USPAT	OR	ON	2008/06/17 13:39
3157	6	{(US-6494567-S or US-6456106-S or US-6624458-S or US-7083289-S or US-6402004-S or US-6705706-S) did.	USPAT	OR	ON	2008/06/17 13:44
3158	2	"20020168831"	US:RQUB; USPAT; USCOR:FRPS; EPO_IPC; DERWENT; BM_TDB	OR	ON	2008/06/17 16:14
3159	1	{US-20020168831-S) did.	US:RQUB	OR	ON	2008/06/17 16:14

10/14/2008 9:27:33 PM

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